



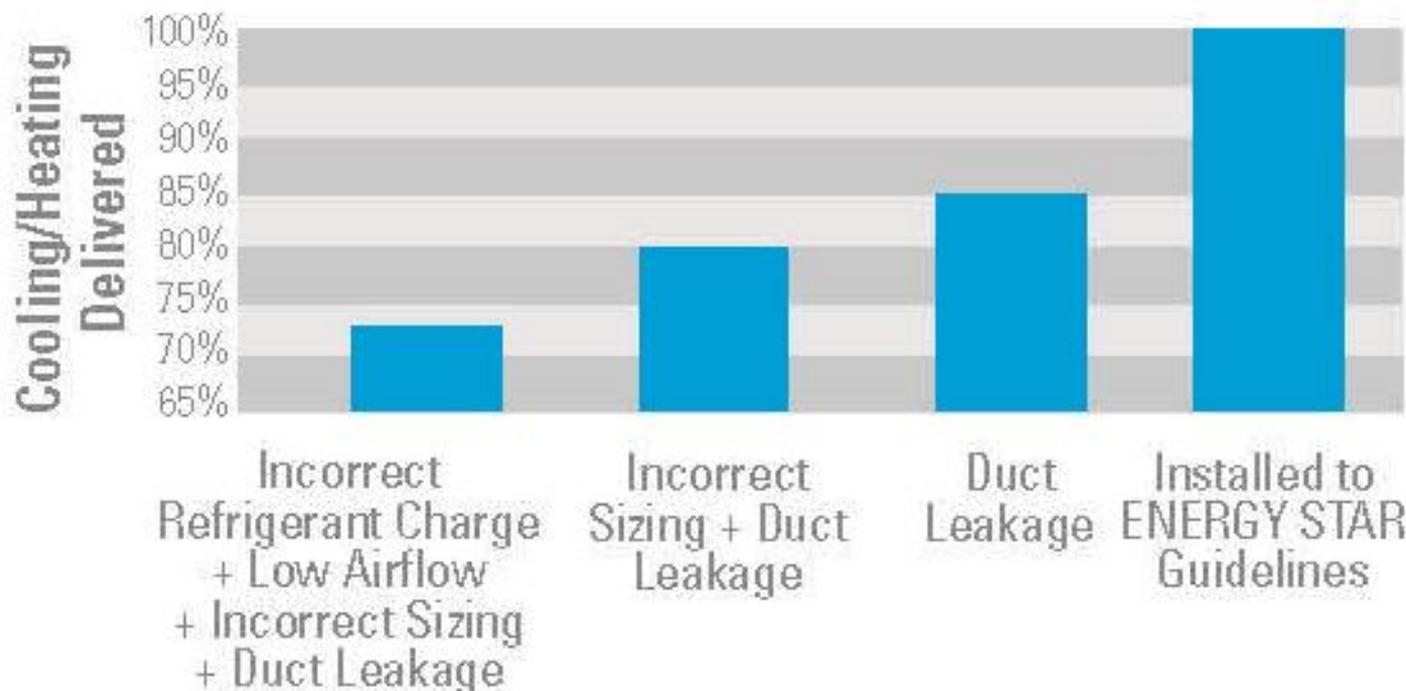
HVAC Contractor Credentialing for ENERGY STAR® Certified New Homes

An Overview of Advanced Energy's Approach



Applied Research – HVAC

Quality Installations Deliver Your Equipment's Full Potential, Many Installations Do Not



Applied Research - 1/4 Million Homes



Standard
Built

ENERGY
STAR

*System***Vision**[™]
by Advanced Energy



ENVIRONMENTS FOR *Living*

Current
MembersProgram
Benefits

Pricing

Renew &
Enrollment

Training

Submit Jobs

FAQ

About Us

WELCOME TO ADVANCED ENERGY'S HVAC CONTRACTOR CREDENTIALING PROGRAM!

We believe that People + Purpose + Process = Profits

And in the residential industry, we believe that collaborating and supporting contractors in the field allows us all to have more impact by being more efficient, effective and economical with all work.

In Advanced Energy's HVAC Credentialing Program for ENERGY STAR New Homes, we provide:

- Best-in-class ENERGY STAR training to your company's staff and subcontractors
- On-demand technical resources that support profitable and quality installations
- Friendly and expert technical assistance via phone, email and on-site
- Quality assurance services that meet the ENERGY STAR program's requirements while maximizing profits

We look forward to being of service to you and hope you take advantage of the resources and support we offer to help you be more successful.

www.advancedenergy.org/HVAC

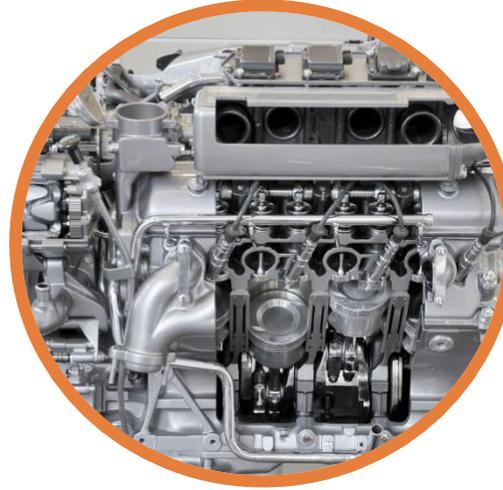
People + Purpose + Process = Profits



Internal & External

Respect:

- Employees
- Customers
- Funders
- Trade Partners
- Suppliers



Effective & Efficient

Execution:

- Easy to work with
- Effective
- Efficient
- Economical



ROI

Result:

- Return on investment
- Cost competitive
- Trusted resource

House as a System

Tight Construction
and Ducts



Effective
Insulation



High Performance
Windows



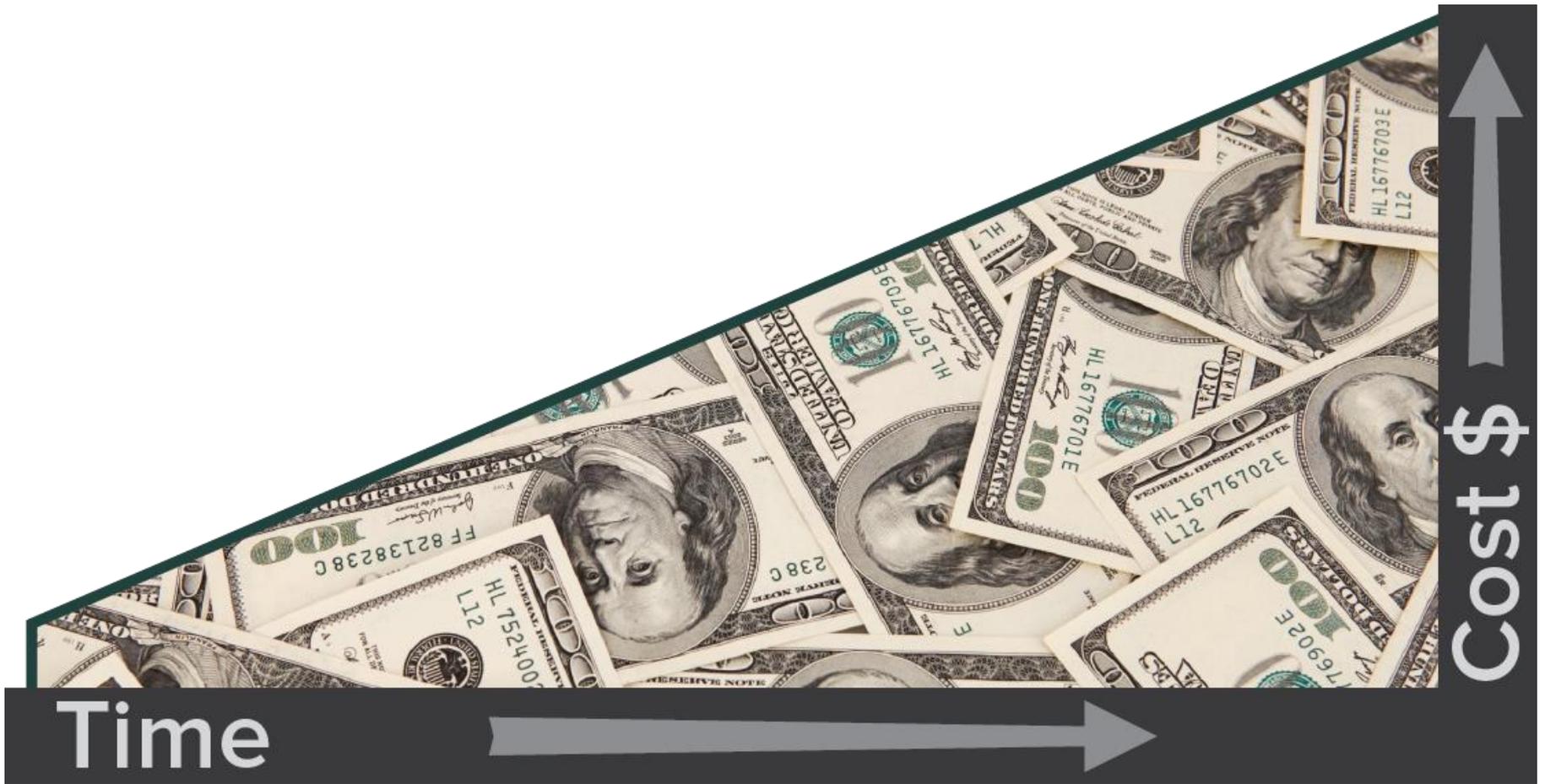
Effective
Products



Efficient HVAC
Equipment



Business as a System



Lessons Learned



HVAC contractors fear the telephone call. To quote Bruce Manclark:

“Contractors size by the telephone method.”

Advanced Energy wants to talk to contractors!

Speak to a person with HVAC knowledge *and* experience meeting ENERGY STAR program requirements!

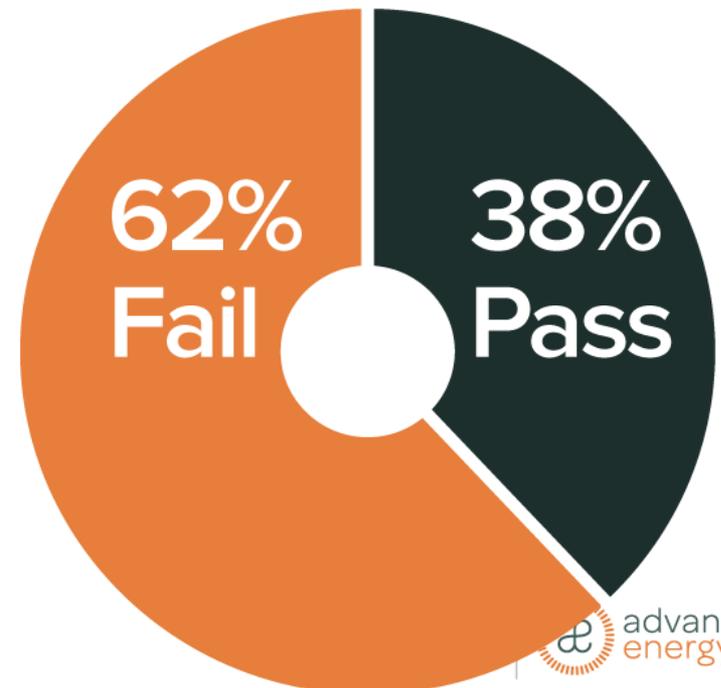


Lessons Learned

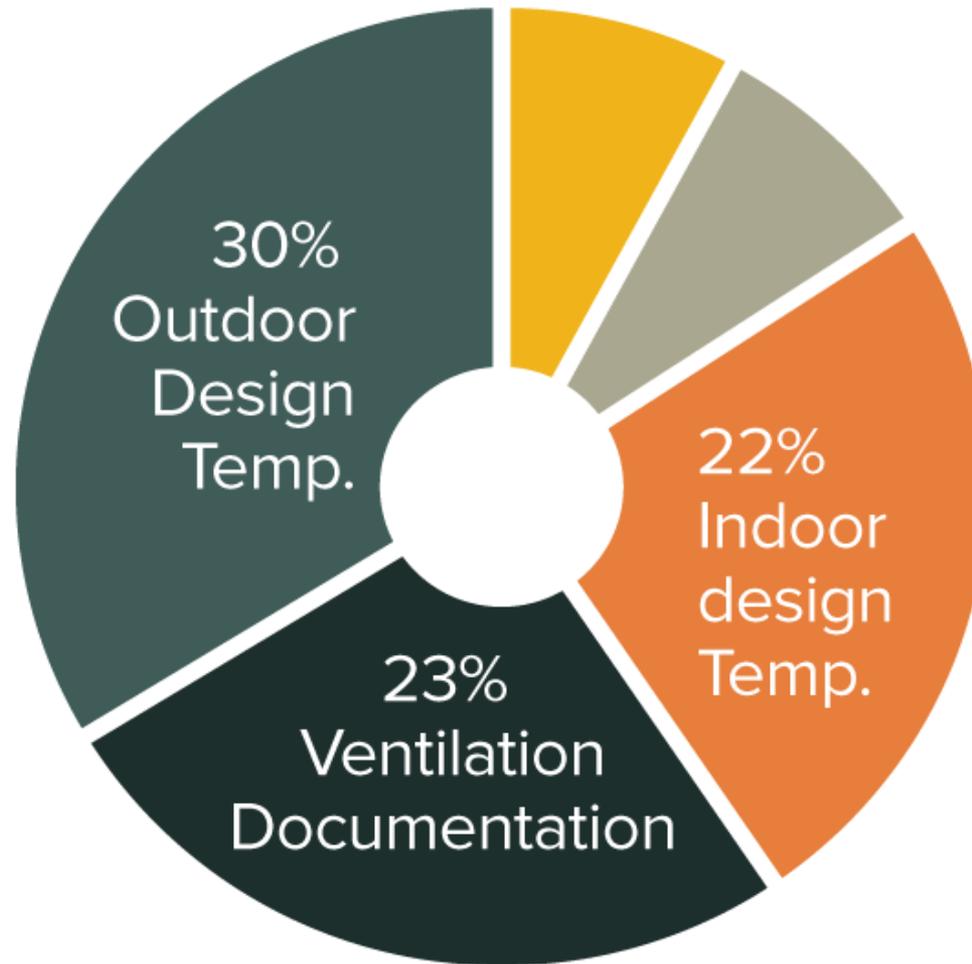
Jobs Review Sample



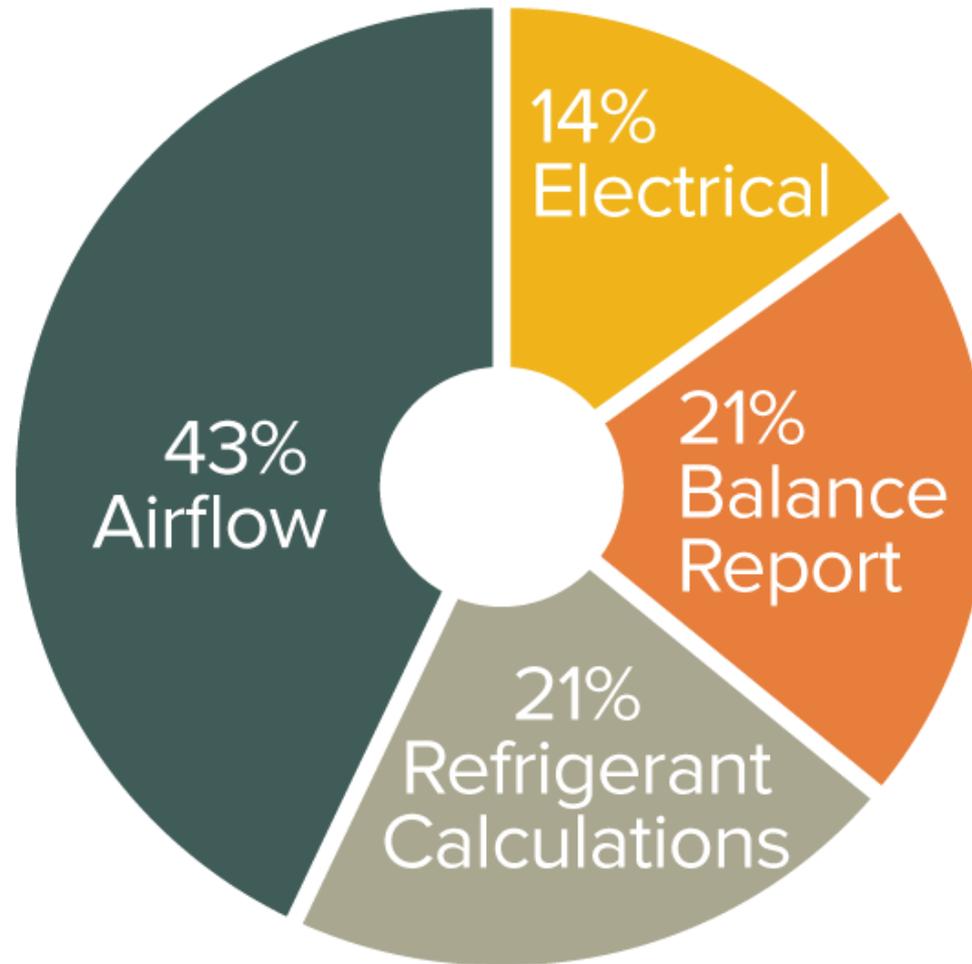
Submissions Complete



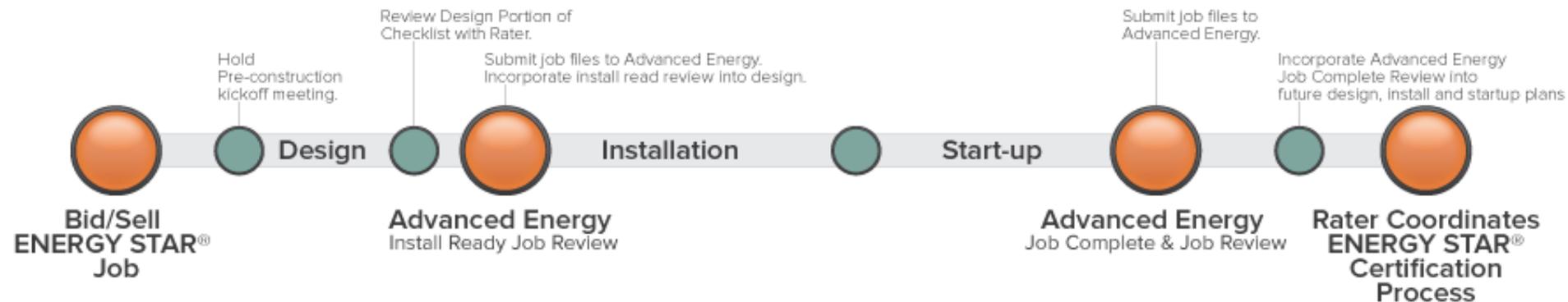
Design Failures



Start Up Failures



Advanced Energy HVAC Job Review Process



Benefits of Working with Advanced Energy



****No matter which system you are installing, the address information, the contractor information and signature is required on the HVAC checklist****

Ducted Split / Package Heat Pump

- Manual J PDF
- Manual D or equivalent method
- Manual S or AHRI certificate
- Ventilation documentation
- Checklist Sections 1-4 and 6-12
- Balance Report

Ducted Split / Package Furnace with AC

- Manual J PDF
- Manual D or equivalent method
- Manual S or AHRI certificate
- Ventilation documentation
- Checklist Sections 1-3 and 5-12
- Balance Report

Ductless / Ducted Mini Split

- Ventilation documentation
- Checklist Section 1

Ducted / Package Geothermal

- Manual J PDF
- Manual D or equivalent method
- Manual S or AHRI certificate
- Ventilation documentation
- Checklist Sections 1-4 and 6-12
- Balance Report

Ducted AC only

- Manual J PDF
- Manual D or equivalent method
- Manual S or AHRI certificate
- Ventilation documentation
- Checklist sections 1-3 and 6-12
- Balance Report

Ducted Furnace only

- Manual J PDF
- Manual D or equivalent method
- Manual S or AHRI certificate
- Ventilation documentation
- Checklist Sections 1-2, 5 and 8-12
- Balance Report

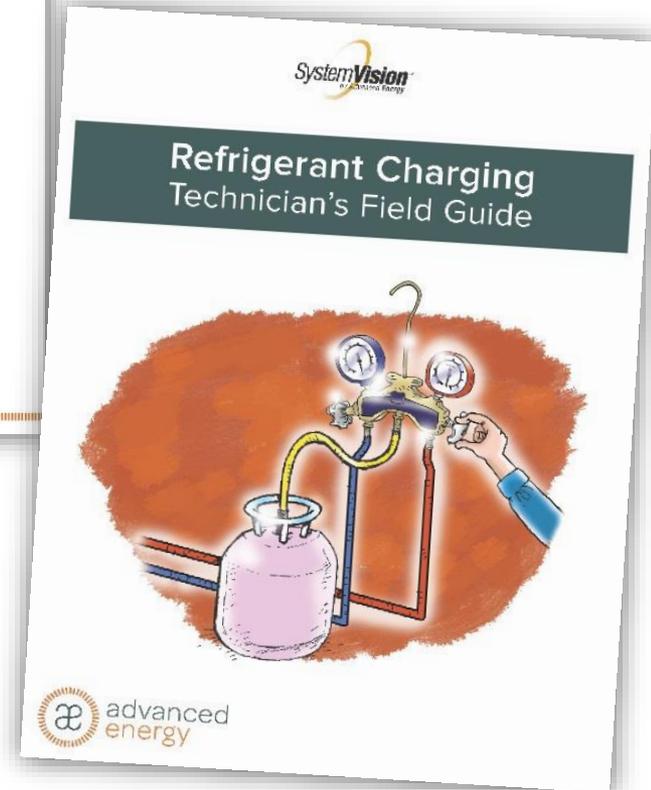
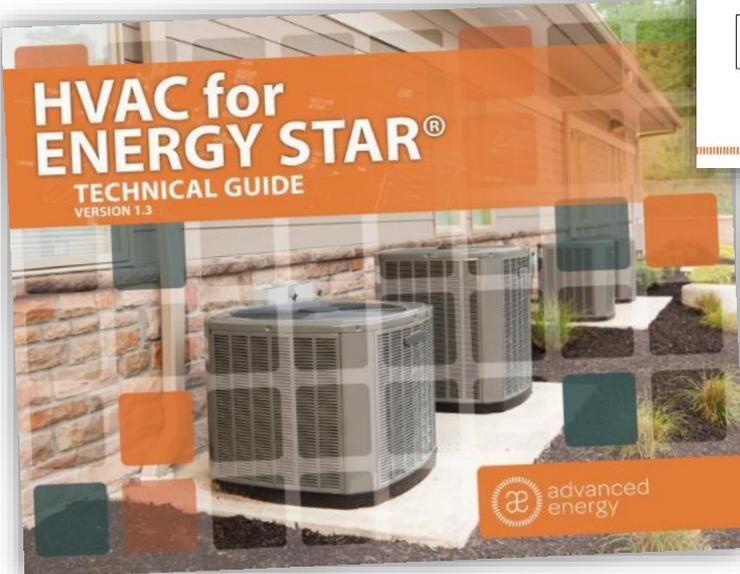
Boiler / Hydronic

- Ventilation documentation
- Checklist Section 1

Ducted Split / Packaged Dual Fuel

- Manual J PDF
- Manual D or equivalent method
- Manual S or AHRI certificate
- Ventilation documentation
- Checklist Sections 1-12
- Balance Report

909 Capability Drive | Suite 2100 | Raleigh, NC 27606 | 919.857.4000



Benefits of Working with Advanced Energy

Frequently Asked Questions

What are the heat pump and air conditioner equipment sizing requirements?

How do I properly size furnaces?

When should I install an ENERGY STAR qualified dehumidifier?

Who should I consult about installation CODES questions?

Where are approved locations to take static pressure measurements?

What is room pressure balancing?

Why is room pressure balancing important?

How should I design my system so it performs properly on the room pressure balancing test?

What should I do if the system designs changes?

Am I required to install air balancing dampers in ENERGY STAR homes?

What should I do if I request or are required to have a site visit from the Advanced Energy's HVAC Program?

What if I decline the site visit?

When is the best time to get involved in an ENERGY STAR project?

Can you remind me what documents need to be submitted at the design phase in order for each house to be an ENERGY STAR home and in the HVAC Program?

What are some general guidelines for rough-in?

What are some general guidelines for trim-out?

What are some general guidelines for duct testing?

Should I submit my design files before installing the system?

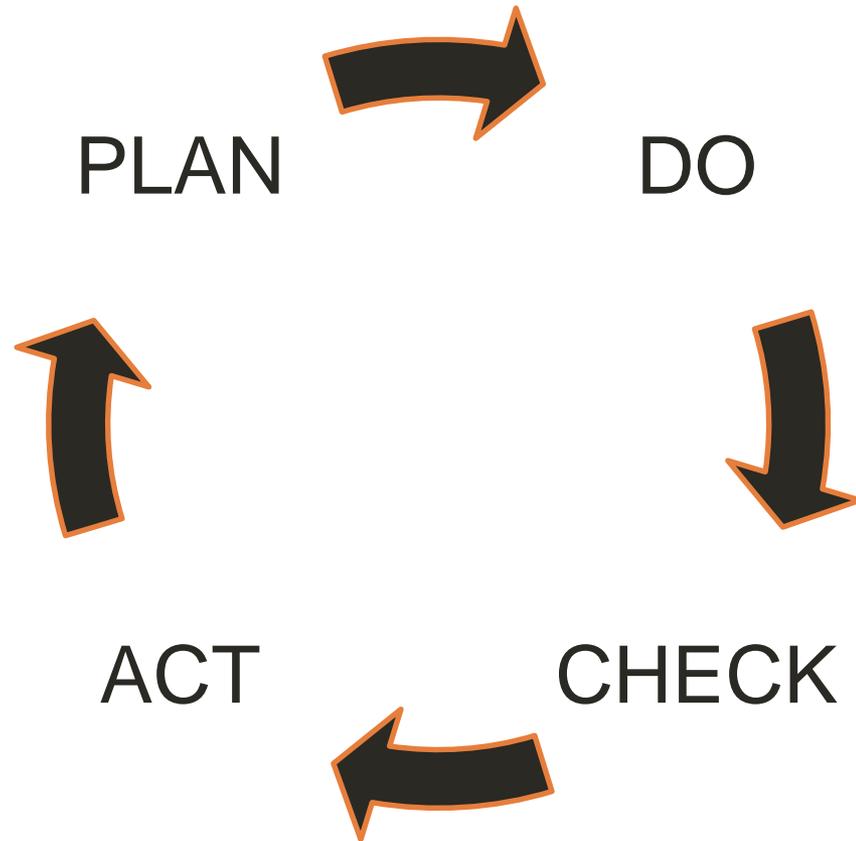
Can a Habitat for Humanity affiliate without a licensed HVAC Contractor on staff or on the job become credentialed through Advanced Energy's HVAC program?

What options does my company have to keep the costs of air flow testing low on ENERGY STAR Certified New Homes program jobs?

What air flow measuring devices can be used on ENERGY STAR Certified New Homes program jobs?

Latest Efforts

- Updating
 - Training Materials to Rev. 08
 - Exam
 - FAQs and Resources





Questions?

www.advancedenergy.org/HVAC

HVAC@advancedenergy.org

919-857-9000